



**A Tour of the  
Epidemic Marketplace**  
**4<sup>th</sup> Epiwork Meeting**  
Torino 13th September, 2013

Mário J. Silva

**U LISBOA**

UNIVERSIDADE  
DE LISBOA

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The Big Bang Theory Season 4 Bloopers

by 7lifeisbeautiful • 1 year ago • 19,525,758 views

Bloopers from the Big Bang Theory Season 4 DVD. No copyright infringement intended, footage belongs to Warner Brothers. Also ...

Big Bang Theory Season 5 Bloopers [HD]

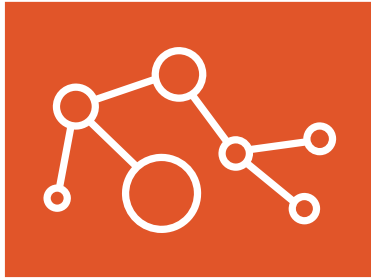
by 14crazyrock14 • 8 months ago • 2,904,216 views

Big Bang Theory Season 5 Gag Reel/Bloopers Bloopers from the Big Bang Theory Season 5 DVD. No copyright infringement ...

The Big Bang Theory: Season 1 Bloopers [HD] [CC]

by Mintiesjz • 8 months ago • 584,304 views

Bloopers from The Big Bang Theory Season 1 Blu-Ray.



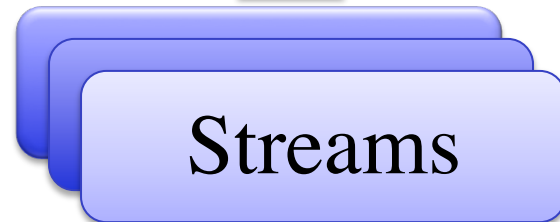
# epidemic marketplace “Objects”



Flu in Portugal



Influenzanet data 2012



December

HEY, HOLD ON!!!:

**I HAVE DROPBOX FOR THAT...**

dogbyter

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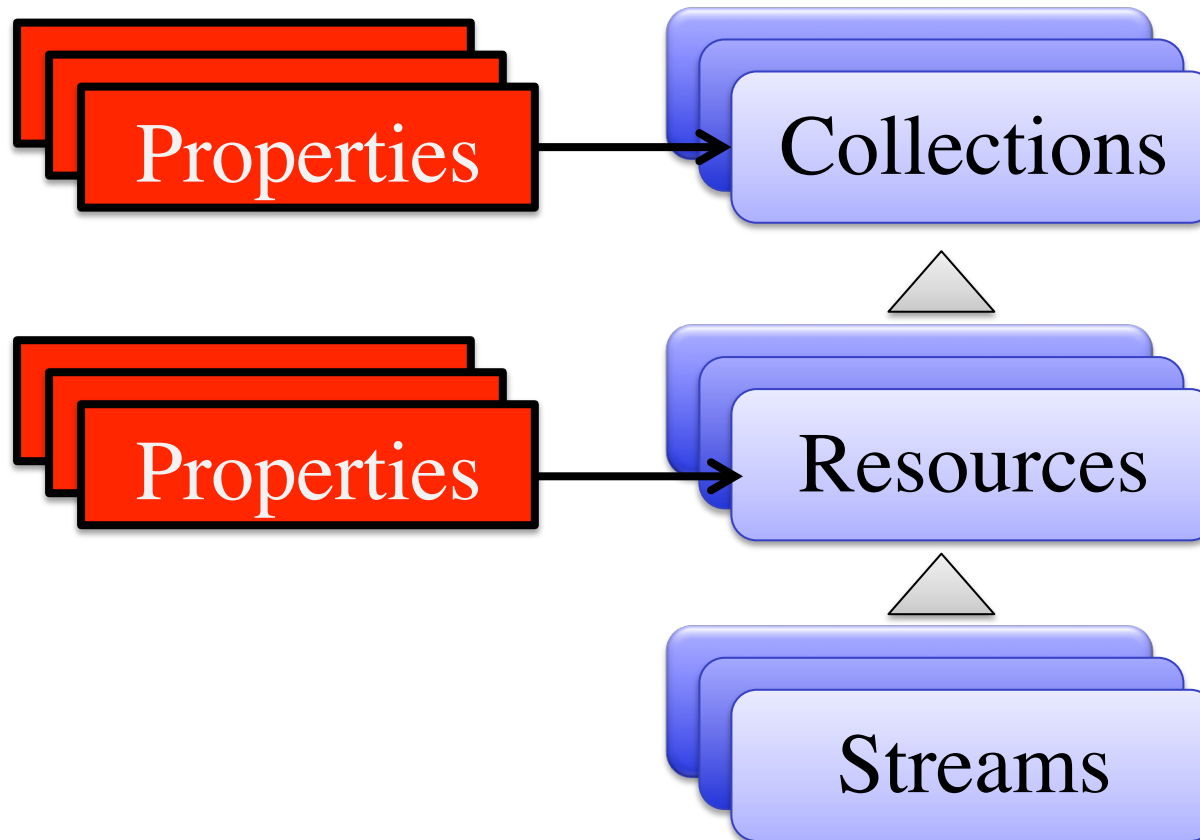
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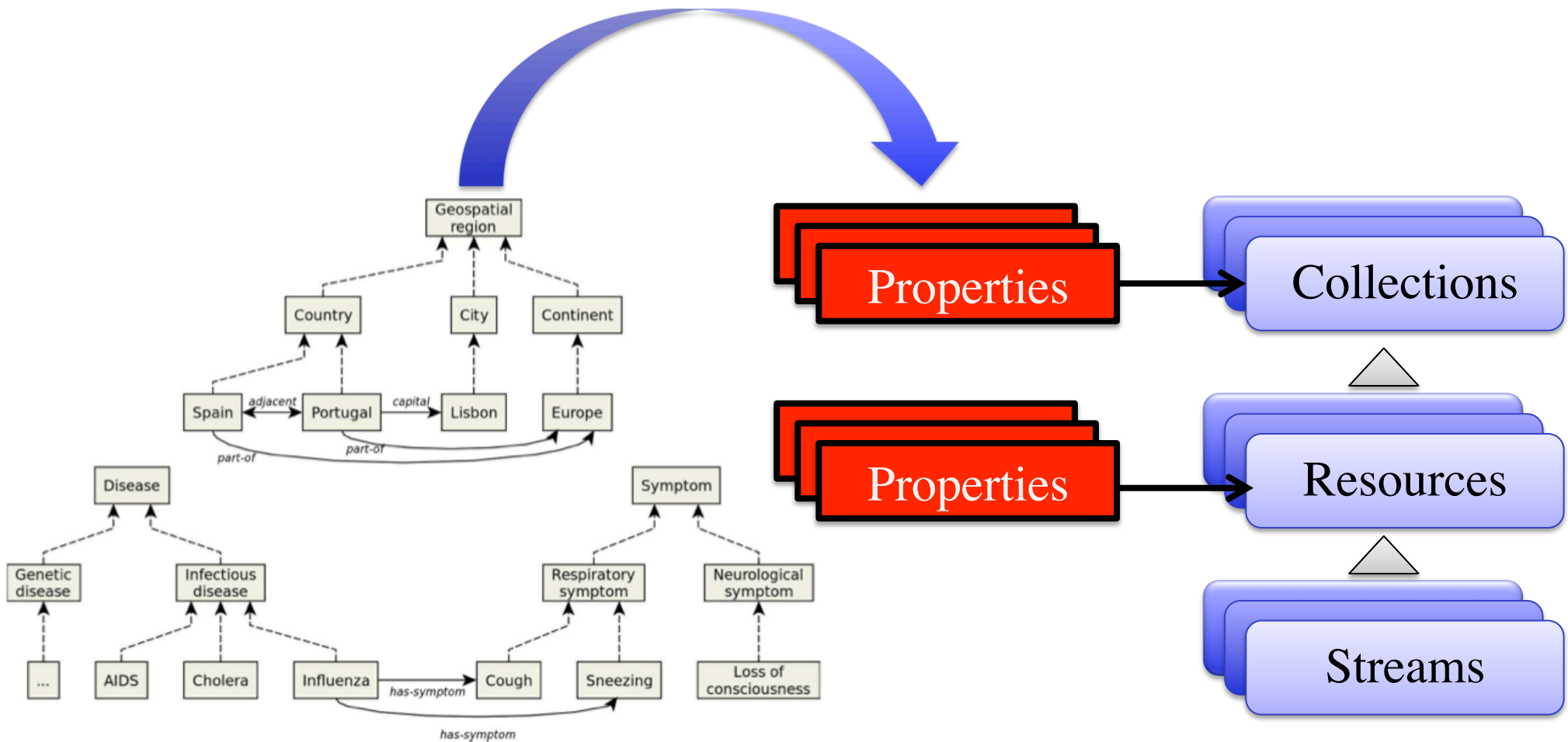
13 September 2013 - Final Review, Torino

5

# Annotations

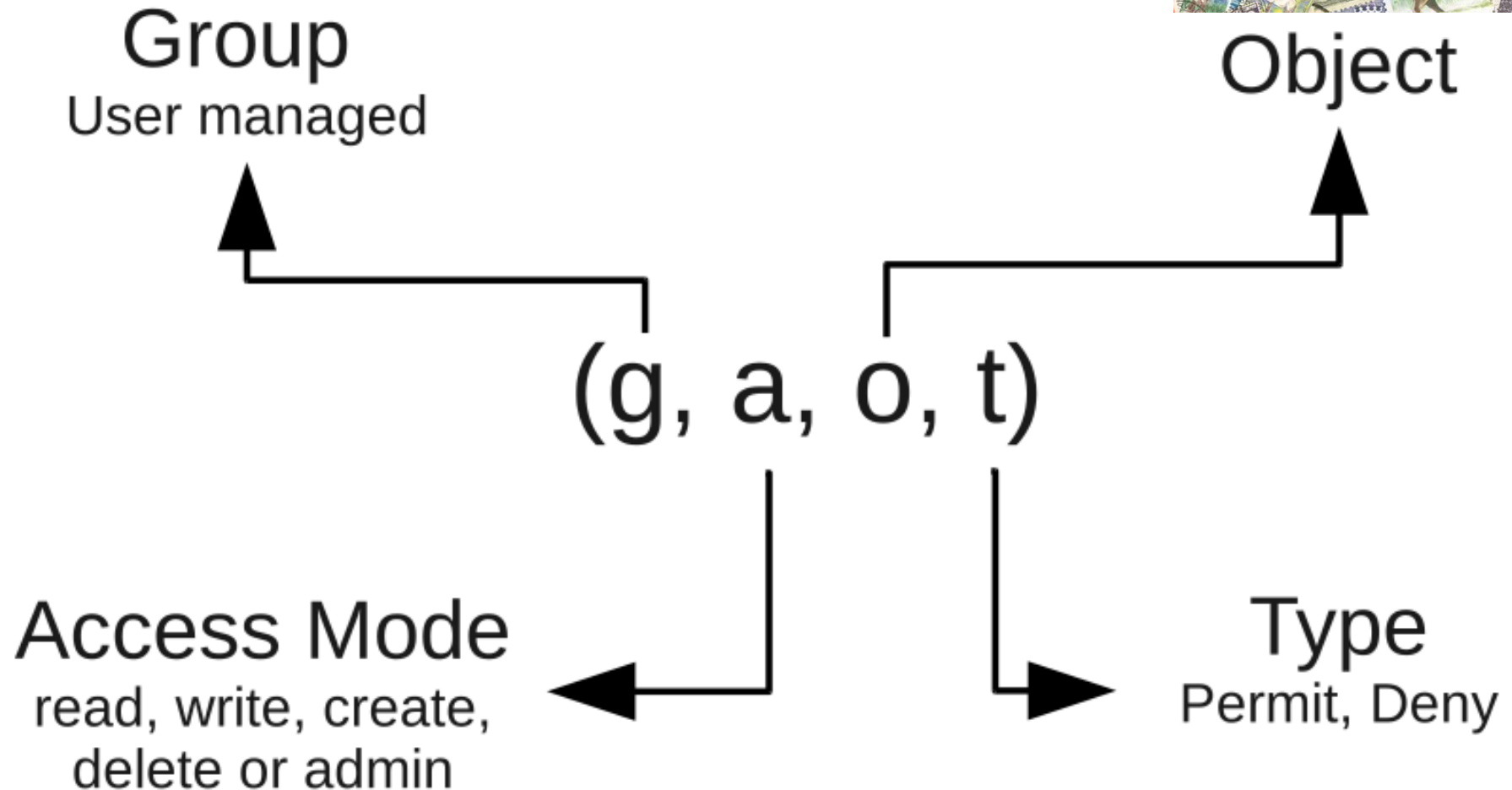


# Machine-understandable vocabularies

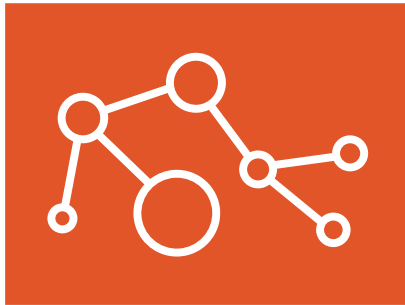




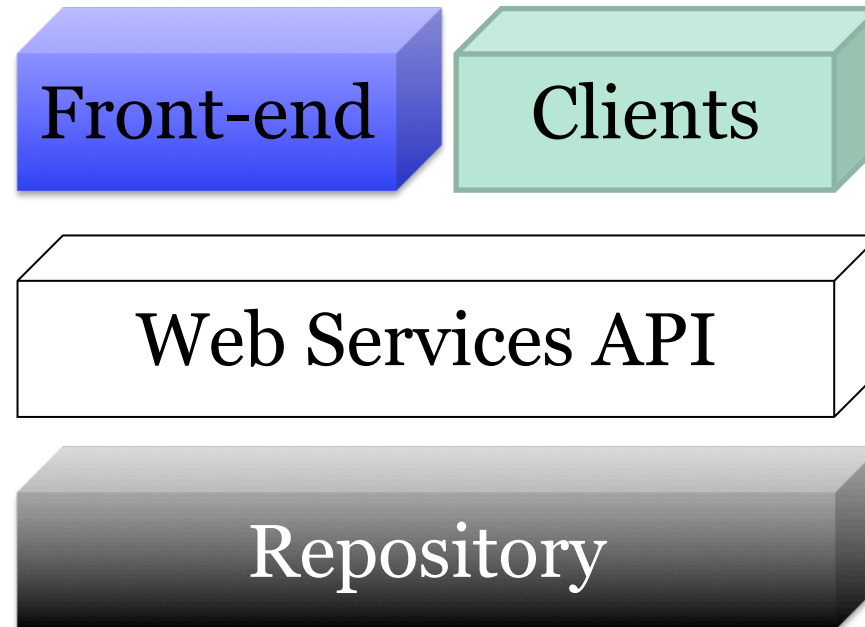
# Access Control Model







# epidemic marketplace





epidemic  
marketplace

# A LITTLE DEMO



epidemic  
marketplace

In 2009 there were 14,346 fatal cases of swine flu,  
**we stored the data**

Examples: Epidemic, flu, h1n1

Search

Advanced ►

## Latest resources



Mobility data

Seasonal transmission potential and activity peaks of the new influenza A(H1N1): Supporting Data

by Francisco Couto on 2013-05-15

Epidemiology



Event

Workshop on Digital Epidemiology

by Francisco Couto on 2013-05-15

Epidemiology



Epidemiological  
data

HCoV-EMC infection in Calu-3 cells: Supporting data

by Francisco Couto on 2013-05-15

Epidemiology

## Latest requests



Request for flu information in Brasil



Epidemiology



medcollector datasets



Epidemiology



Data describing the population's infection network structure



Epidemiology

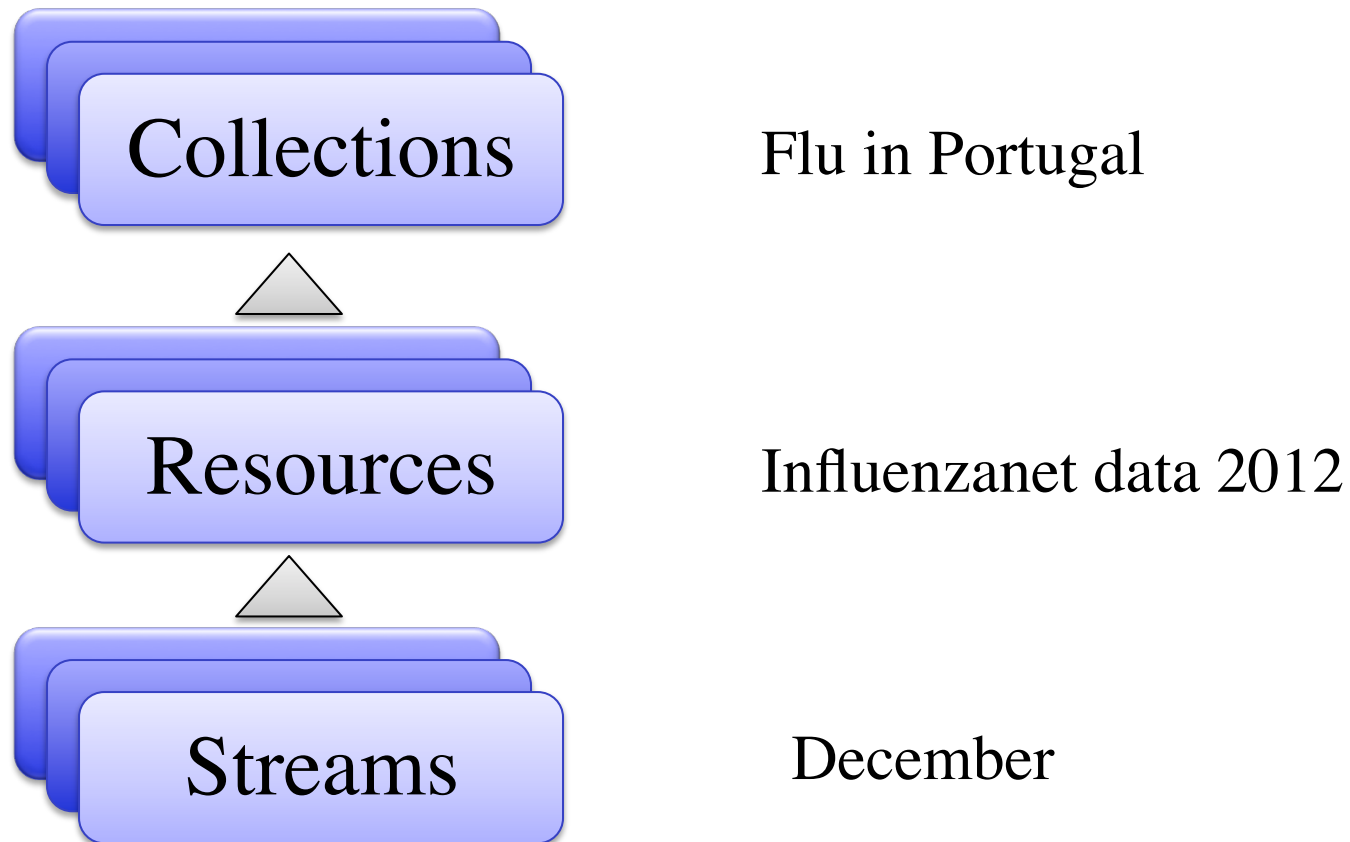


Requesting additional data

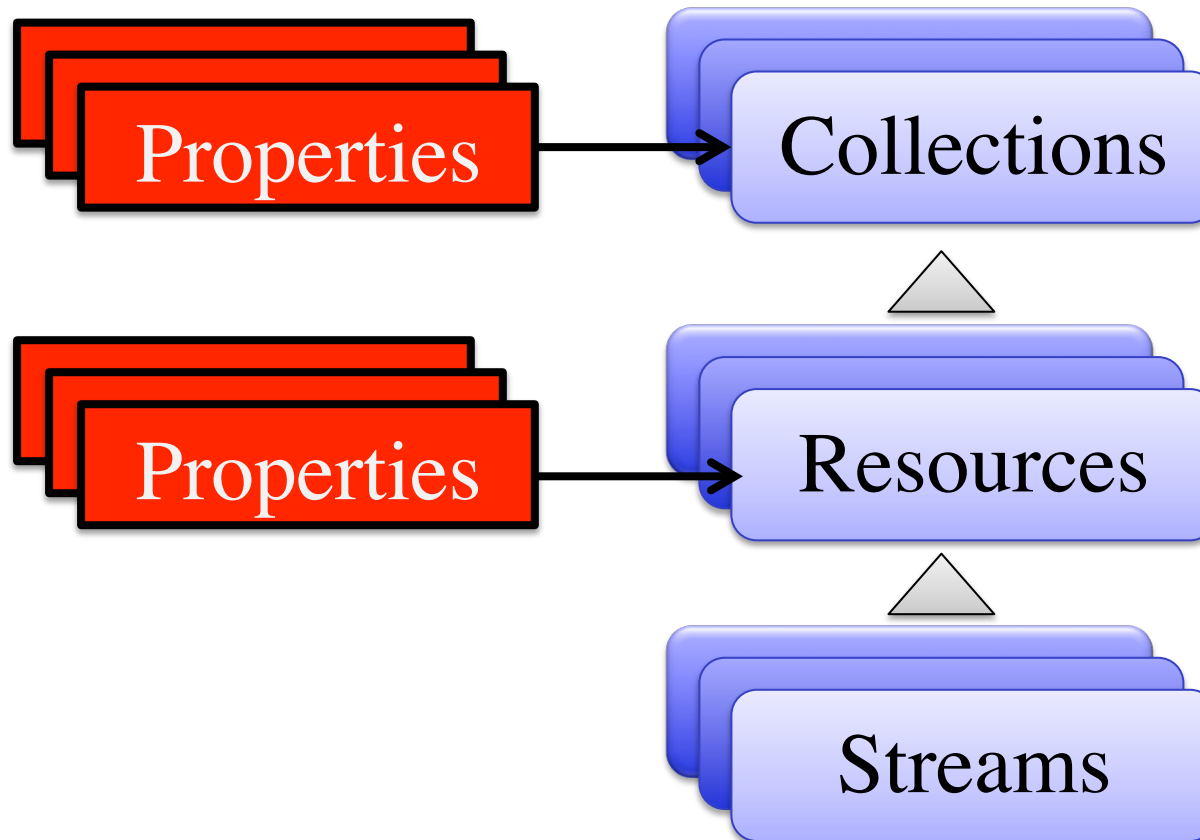


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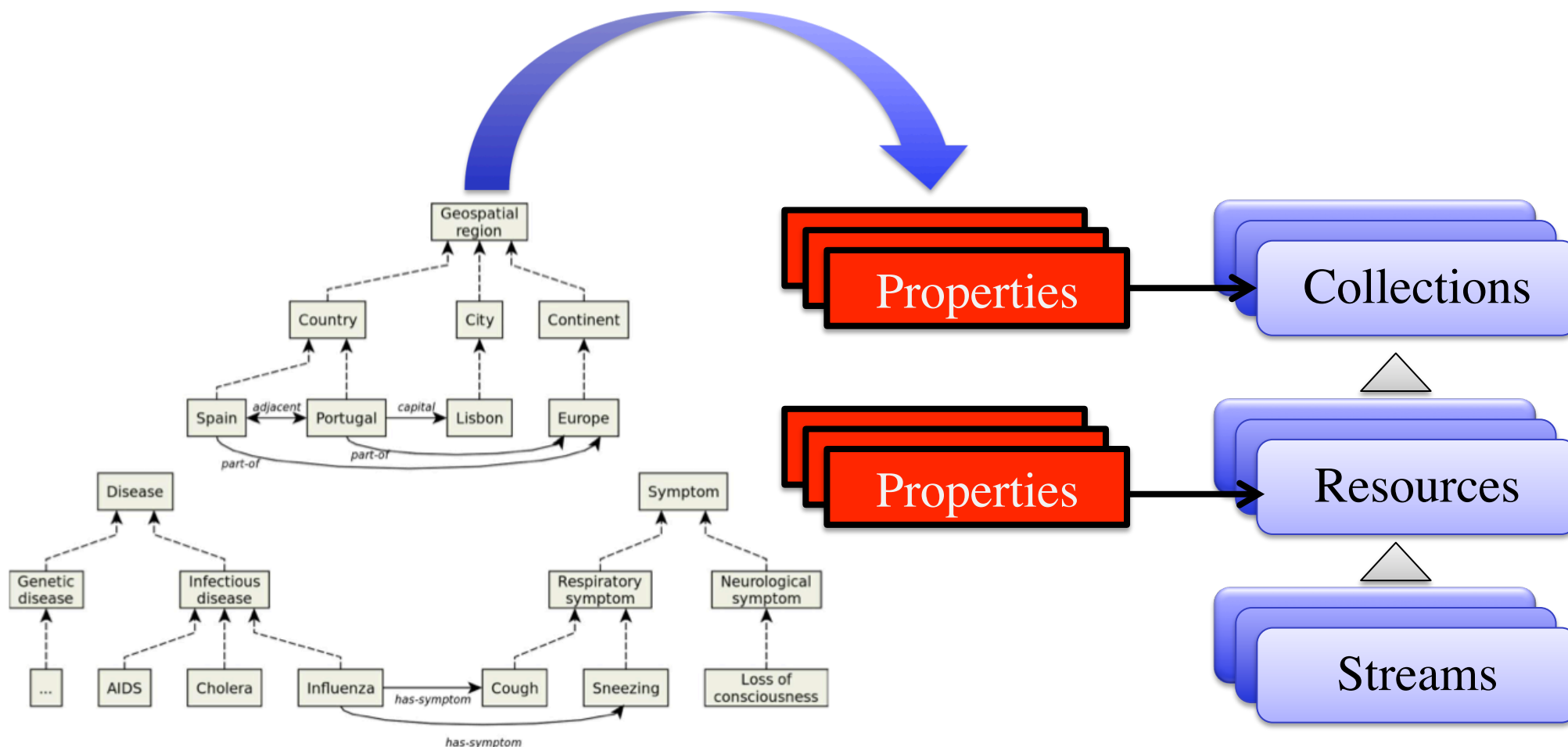
# EM “Objects”



# Annotations



# Picking Annotation Terms



Resource:

# Edit "Infections, medication use, and the prevalence of symptoms of asthma, rhinitis, and eczema in childhood.":

The Pre-load feature is based on [BioPortal Annotator](#) tool and NERO ontologies.

**Note:** you will have to submit changes after the pre-loading.

## Biological Information

### Diagnostic Method

Diagnostic test used to obtain data in the resource; or the protocol defined in the resource

### Disease

Disease that is mentioned in the contents of the resource

### Symptom

Symptom that is mentioned in the contents of the resource

### Drug



Chemical compounds associated with in the resource, as cause and/or treatment of a disease

## Other available actions

[Title and description](#)
[General information](#)
[Time and location](#)
[Epidemiological information](#)
[Authors](#)
[Source information](#)
[Bibliographic references](#)
[External identifiers](#)
[Resource's rights](#)
[Upload file](#)
[Edit Urls](#)


Set a relationship with  
this resource

# **Users, Groups, Access Control**







epidemic  
marketplace

[www.epimarketplace.net](http://www.epimarketplace.net)

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Search for...

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<https://www.facebook.com/EpidemicMarketplace>

# Today's Demo

1. Basic Interaction with the EM Front-end
2. A peek at the Influenzanet and Gleanviz data
3. Finding data
4. Requesting datasets and fulfilling them
5. Uploading resources
6. Annotating resources with Ontologies
7. Groups and access control
8. Organising Resources in collections

# EM-Related Publications

- **D3.6 - Report: Final specification of the Epidemic Marketplace Platform and Evaluation Results Technical Report.**
- Catia Pesquita, João Ferreira, Vera Carvalho, Francisco M Couto, Mário J Silva. Epidemiological resource identifiers and their semantics, where are they? **Submitted to PLOS One**, June 2013.
- Catia Pesquita, João D. Ferreira, Francisco M. Couto, Mário J. Silva. The Epidemiology Ontology: an ontology for the semantic annotation of epidemiology resources. **Submitted to JBMS Special Issue on Ontology**, May 2013.
- João Ferreira, Daniela Paolotti, Francisco Couto, Mário J. Silva 2012: On the usefulness of ontologies in epidemiologic research and practice. **Journal of Epidemiology and Community Health.**
- Catia Pesquita, Francisco M. Couto 2012: Predicting the Extension of Biomedical Ontologies. **PLOS Computational Biology** 9(8), e1002630.
- Zamite, J., Silva, F., Couto, F., Silva, M. 2011: MEDCollector: Multisource epidemic data collector. **Transactions on Large-scale Data-and Knowledge-centered Systems IV: Special Issue on Database Systems for Biomedical Applications** (6990), 40-72.
- Francisco Couto, Mário J. Silva 2011: Disjunctive Shared Information between Ontology Concepts: application to Gene Ontology. **Journal of Biomedical Semantics.**



# epidemic marketplace team

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Fabrício Silva, Cátia Pesquita, Luís Lopes

João Zamite, João Ferreira, Paulo Graça, Hugo  
Ferreira, Hugo Santos, Vera Carvalho, Tiago Posse,  
Carlos Sousa, Patrícia Sousa, Juliana Duque  
Corrado Gioannini, Daniela Paolotti

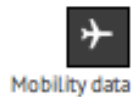


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*Participate!*

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